

United States Department of Agriculture  
Animal and Plant Health Inspection Service  
Plant Protection & Quarantine  
4700 River Road  
Riverdale, MD 20737

## Controlled Import Permit to Import Restricted or Not Authorized Plant Material Regulated by 7 CFR 319.6

This permit was generated electronically via the ePermits system

<b>PERMITTEE NAME:</b> <b>ORGANIZATION:</b> <b>ADDRESS:</b>  <b>MAILING ADDRESS:</b>  <b>PHONE:</b> <b>ALT. PHONE:</b> <b>EMAIL:</b> <b>FAX:</b> <b>GROWING LOCATION:</b>	Brian Staskawicz University of California, Berkeley 2151 Berkeley Way 320 Berkeley, CA 94704 2151 Berkeley Way Berkeley, CA 94704 (510) 828-5415 510-828-5415 stask@berkeley.edu 2151 Berkeley Way Berkeley, CA 94704	<b>PERMIT NUMBER:</b> <b>APPLICATION NUMBER:</b> <b>DATE ISSUED:</b> <b>EXPIRES:</b> <b>FACILITY NUMBER:</b> <b>FACILITY ACCOUNT:</b>  <b>RESEARCH CENTER:</b> <b>FACILITY NAME:</b>  <b>FACILITY ADDRESS:</b>  <b>MAIL ADDRESS:</b>   <b>FACILITY CONTACT:</b> <b>PHONE:</b> <b>ALT. PHONE:</b> <b>EMAIL:</b>	PCIP-20-00336 P588-200730-002 10/06/2020 10/05/2021 5041 University of California, Berkeley Innovative Genomics Institute Energy Biosciences Building, Room 320 2151 Berkeley Way Berkeley, California 94704-5230 2151 Berkeley Way, Room 320 Energy Biosciences Building Berkeley, California 94704-5230 Brian Staskawicz (510) 6662559 stask@berkeley.edu
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**PORTS OF ENTRY:** MD, Laurel

Under the conditions specified, this permit authorizes the following:

<u>Article(s)</u>	<u>Countries of Origin</u>	<u>Plant Parts</u>	<u>Grown in U.S.</u>	<u>Intended Use</u>	<u>Total Qty</u>	<u>Qty per Shipment</u>	<u>Number of Shipments</u>
Oryza sativa	China	Seed	Yes (Laboratory)	Disease resistance studies	500 seeds seeds	seeds	2

### SPECIAL INSTRUCTIONS TO INSPECTORS


See permit conditions below

### PERMIT CONDITIONS

This permit authorizes the importation of the listed articles, under the conditions specified below. A copy of this permit (including all conditions) must accompany all shipments authorized under this permit.

In addition to this permit, genetically engineered plant materials regulated by 7 CFR Part 340 must be imported with a valid APHIS 2000 Permit or Notification. Please call (301) 851-3935 or email

Permit Number PCIP-20-00336

THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.   <b>Ramesh Pokharel</b>	<b>DATE</b>   <b>10/06/2020</b>
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Biotechquery@aphis.usda.gov for more information.

Receipt or use of foreign isolates or samples from countries under sanctions requires specific permission from the U.S. Department of Treasury. See <http://www.treasury.gov/resource-center/sanctions/Programs/Pages/Programs.aspx> for current country listings.

Any person who violates the Plant Protection Act (PPA) of the United States, individuals or corporations who fail to comply with these conditions and authorizations, or who forge, counterfeit, or deface permits may be criminally or administratively prosecuted and found guilty of a misdemeanor which can result in penalties, a one-year prison term, or both. Additionally, any person violating the PPA may be assessed civil penalties of up to \$250,000 per violation or twice the gross gain or gross loss for a violation that results in the person deriving pecuniary gain or a pecuniary loss to another, whichever is greater. In addition, all current permits may be cancelled and future permit applications denied.

This APHIS-issued import permit only covers compliance with APHIS regulations and requirements. Therefore, this APHIS permit for the commodity to be imported does not reduce or eliminate the permittee's legal duty and responsibility to likewise comply with all other Federal and State regulatory requirements applicable to the commodity to be imported.


Some plants may be subject to regulations under the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES). To determine if a particular species is regulated under Appendix I, II, or III of CITES, please consult the appendices for CITES located at <https://ecos.fws.gov>

1. This permit authorizes the importation of rice seeds from China to Brian Staskawicz, University of California, Berkeley in Berkeley, California for breeding, resistance study in the approved facility (5041).
2. The person who is issued this PPQ Controlled Import Permit (CIP) and his/her employees or Agents, shall comply with the following permit conditions, which are deemed by the USDA APHIS Administrator to be necessary to prevent the dissemination and establishment of plant pests.

The permit holder must:

- (a) be at least 18 years of age, have and maintain an address in the United States that is specified on the permit, and be physically present during normal business hours at that address during any periods when articles are being imported or moved interstate under the permit.
- (b) notify the PPQ-CIP unit if it is necessary to transfer of permit ownership, and changes in address or phone number.
- (c) keep the CIP permit valid for the duration of possession of any imported plant material that is maintained under his/her possession until released from permit requirements as directed in this permit.
- (d) maintain the regulated plant material only at the location specified in the permit, and dispose of the material as described in the permit conditions.
- (e) notify the PPQ-CIP unit, within 5 days, of any signs of potential disease symptoms such as wilting, dying or sudden death, or accidental release or destruction of regulated plant material.
- (f) notify the PPQ-CIP unit of the receipt of any unauthorized plant material not listed on the permit.

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- (g) notify the PPQ-CIP unit, within 5 days, if facilities which contain imported plant material are renovated, decommissioned for any reason or severely damaged by natural disaster.
- (h) destroy all regulated plant material prior to the permit holder's departure from the approved facility unless other arrangements are confirmed by the PPQ-CIP unit, or unless a new permit is in place with a responsible party at the facility.
- (i) Notification or Contact information for PPQ-CIP unit: Telephone (301) 851-2046 or (877) 770-5990 (Toll-Free Automated System); Fax (301) 734-5786; Email: [controlled.import.permits@usda.gov](mailto:controlled.import.permits@usda.gov).
3. The plant materials must be selected from apparently disease-free and pest-free sources, free of federal noxious weeds and soil.
4. Inspection:
- (a) All regulated plant material is subject to inspection at a PPQ Plant Inspection Station (PIS) at the time of entry to the U.S. If found infected/infested at the PIS, plant material may be destroyed, treated or returned to the exporter at the permittees expense.
- (b) Imported plant material may be refused entry if coated or covered with fungicide, insecticide or any other treatments that obscure inspection.
5. Packaging and Shipping:
- Packaging:
- (a) The shipment must be accompanied by an invoice or packing list indicating its contents, which are clearly labeled, and include the permit number on the bill of lading.
- (b) The imported plant material must be packaged in a sturdy closed container to prevent cross contamination and possible escape or introduction of plant pests during shipment.
- (c) Imported materials must not be wrapped or otherwise packaged in a manner that impedes or prevents adequate inspection or treatment.
- (d) Any packing material used in the consignment of the plant material must meet the requirements of § 7 CFR 319.37-11, and wood packing material used in the consignment must meet the requirements of § 319.40-3(b).

Shipping:

- (a) A green-and-yellow-label is required. Labels will be provided in electronic form (PDF file) to the email address on file and must be printed in color. The green/yellow labels include detailed shipping instructions. Additional labels must be request at least five days in advance through ePermits using the My Shipments/Labels feature. Alternatively, email to [greenandyellowplantslabelrequest@usda.gov](mailto:greenandyellowplantslabelrequest@usda.gov).
- (b) Inform the exporter to use a) yellow/green permit label, and b) include a prepaid domestic airway bill in each package that directs the shipment to the final destination after the inspection at PIS. Alternatively, include your preferred courier account number that the PIS may use to generate a domestic airway bill to forward the shipment to the final destination.
- (c) When shipping using a bonded carrier such as FEDEX, DHL, etc., attach the green/yellow label to the exterior of the package which will direct the package to the designated PIS. **DO NOT PLACE ANY OTHER DELIVERY ADDRESS ON THE OUTSIDE OF THE PACKAGE.**
- (d) Include a copy of the permit inside the package

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6. Notification:

(a) Upon arrival of each shipment at the facility/location, the permittee shall notify, by email, the State Plant Health Director (<https://www.aphis.usda.gov/planthealth/sphd>) and State Plant Regulatory Official (<http://nationalplantboard.org/membership/>).

(b) The SPHD and the PPQ-Plants for Planting Office (Controlled.Import.Permits@usda.gov) shall be notified within 5 days of any abnormality noticed in the plant material or if the plant material dies. Dead plant material shall be double bagged and either autoclaved or incinerated after being recorded.

(c) Upon arrival of each shipment, the permittee shall notify the Alameda County Agricultural Commissioner's office at Cathy.Roache@acgov.org and Heather Scheck, CDFA at 916-654-1017.

7. Identity:

(a) Before being used, all imported plant materials must be labeled "Quarantined material", and stored in a locked cabinet or other secure location under the control of the permittee to prevent pilferage and unauthorized use.

(b) From the time of receipt and until the material is fully released by PPQ, the identity of all regulated material must be maintained throughout the permit period by visible labeling. The information on the label must contain the permit number, the genus, species and cultivar, country of origin and date of arrival. Each plant (and related increase) must be tracked and identifiable.

(c) No increase of these plants is allowed. Submit amendment to the Permit unit if you like to change plant quantity by increases to plants already imported.

8. Monitoring and Record keeping:

(a) Standard Operational Procedures (SOP) on file must be followed. Any changes to the SOP must be first approved by the permit unit. Please email: [controlled.import.permits@usda.gov](mailto:controlled.import.permits@usda.gov)

(b) The plants are to be examined periodically by your designated plant pathologist for evidence of plant diseases.

(c) Records must be kept of all pest or diseases associated with the imported plants including abnormalities and death.

(d) Records of any pesticide applications must be maintained.

(e) The facility where the work is performed, and the imported plant materials are grown, are subject to unscheduled inspection by an APHIS representative during regular business hours. At the time of inspection, the importer must make records available for the imported material received under this permit.

9. Disposal:


(a) After the imported material is removed from the shipping container, the container must be bagged and sterilized by autoclaving, destroyed by double bagging and incineration, or double bagged and sent to a municipal landfill.

(b) All discarded growing media, containers and plant material must be sterilized utilizing methods such as an autoclave, heat application of 121 degrees Celsius (250 F) for minimum of 30 minutes to the core of the treated material, chemical sanitation or incineration prior to disposal into a land fill or municipal sewage. Recommendations for time depending on the type of materials are enclosed below:

<https://sterilizers.com/autoclave-time-temperature-pressure-chart.html>

(c) Unused imported plant materials must be devitalized/destroyed by sterilization using an autoclave or

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by double bagging and incineration. All related plant waste will be autoclaved or double bagged and incinerated prior to disposal or double bagged and sent to a municipal landfill.

10. Growth chamber requirements:

- (a) Access to the imported material must be limited to you, your designated plant pathologist and those you authorize to care for the plants.
- (b) A pest management program must be in place to effectively control diseases and pests including arthropods, and insect vectors (e.g. aphids, thrips, and white flies) that potentially could transmit pathogenic organisms.
- (c) Records must be kept of all pest or diseases associated with the imported plants that are discovered, as well as any pesticide applications that the plants receive.
- (d) A dedicated greenhouse/growth chamber, or a physical barrier such as an insect screening/cage within an approved greenhouse must be used to keep plants isolated and pests from disseminating.
- (e) The plant material from individual shipments must be separated physically from any domestic or other imported plants.

11. Oryza specific conditions:

Limitations:

- (a) This permit is not valid for importation of Oryza longistaminata, O. punctata, or O. rufipogon. These species are Federal Noxious Weeds and require a PPQ 526 permit.
- (b) Fungicidal or insecticidal dusts, powders, slurries, etc., shall not be applied before shipment. If pesticides are found, seeds will be returned to the shipper.
- (c) Only a limited number of accessions may be imported due to heat treatment required at the Plant Inspection Station (PIS). If seeds are prepackaged in heatproof mesh bags and marked with a permanent (water and heat proof) ink then 50 grams per bag, with a 300 accession is permitted per month. Otherwise, only 150 accessions are permitted and will receive hot water treatment after packaging at the PIS.


Treatment at the PIS:

- (a) Seeds will be inspected for pest/pathogens and subject to hot water treatment at 56 °C for 15 minutes, followed by drying, and then forwarded to the permittee.

Treatment at the permit holder's facility:

- (a) De-hull and surface sterilize the Oryza seed with a sterilizing agent such as 10 percent sodium hypochlorite solution for two hours, or a similarly effective sterilizing agent.
- (b) Following, surface sterilization, seeds must be germinated on blotters moistened with water at appropriate conditions and enclosed in containers capable of transmitting light, such as glass or plastic culture plates. Seeds should be equidistant from each other and there should be no more than 20 seeds per 9 centimeter culture plate, or an inch apart on the blotter paper.
- (c) Plants should be incubated under near ultra violet light or fluorescent light. The incubation temperature must be 24 °C for 16 hours followed by 21 °C for 8 hours.
- (d) Germinating seeds must be examined periodically over a period of 8 days to two weeks, after which healthy seedlings may be selected for planting.

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12. Quarantine evaluation:

- (a) The quarantine period is one growing cycle (6 months).
- (b) The mother plants will be inspected periodically by the Permit Holder's designated pathologist or by APHIS/State Agricultural Department plant pathologist.
- (c) Plants showing disease symptoms will be tested for quarantine pathogens, as per the decision of plant pathologist, rogued, collected and sterilized using appropriate protocol for sterilization.
- (d) Plants must be inspected during growing and free of; Bacteria: *Pseudomonas fuscovaginae* and *Xanthomonas oryzae* pv. *oryzae*
- (e) Any suspect or symptomatic plants for quarantine pathogens, as decided by the plant pathologist, must be tested/confirmed by tests such as ELISA or PCR.

13. Release:

- (a) Plant pathologist report and/or PCR and or ELISA test results must be demonstrated before release is granted.
- (b) Prior to release, neither the imported material nor increases may be distributed to any person or location unless approved in advance by the PPQ Controlled Import Permit Unit.
- (bc) A decision to grant or deny permission to release the plant material will be made at the conclusion of the required PPQ quarantine period. Release will require a written statement from the State Plant Health Director (SPHD) who will consult with the designated plant pathologist and both must inspect the site for compliance and plants for any pests. Request inspection and release by SPHD of your State:  
<https://www.aphis.usda.gov/planthealth/sphd>
- (d) Alternatively, APHIS PPQ may prescribe additional treatments or measures, if warranted by pest and/or disease findings.

14. Permit validity and renewal:

- (a) Controlled import permits are initially issued for one (1) year and may be renewed for up to an additional two (2) years.
- (b) As part of the renewal package, the permittee must submit records that include propagation from the imported plant material, testing results, plant abnormalities and death, plant disposal information, and any pest or disease occurrences.

**END OF PERMIT CONDITIONS**

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DATE

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